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ABSTRACT

This document consists primarily of copies of overhead transparencies that outline the content of a presentation on the establishment of policy for the implementation of educational technology. Individual displays present three fundamental goals for the implementation of educational technology; broad areas affected by changes in technology; a definition of policy; an outline of the decision-making process; and five broad applications of educational technology. Two worksheets for use in policy development are included, as well as a copy of a proposed Missouri state regulation that would establish standards and procedures for approving and implementing courses delivered primarily through electronic media. (EW)

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Establishing Sound Policies For Implementing Technology

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November 6, 1987

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OUTLINE

- Introduction
- Basis for Concern
- Role of Public Policy
- Policy Areas Affected by Changes in Technology
- Local Policy Development
- State Policy Development
- Conclusion
- Questions/Answer Session

THREE FUNDAMENTAL GOALS

In the course of its work, the Task Force reached a deepened conviction that information technology represents a powerful array of tools that when creatively applied and appropriately integrated will help meet three fundamental goals:

(1) Improving the quality of learning.

(2) Increasing equity of opportunity, access and quality.

(3) Ensuring greater cost effectiveness.

BEGINNING THE TRANSFORMATION

- Planning
- Financing
- Teacher Education
- Curriculum Instruction
- Evaluation

DEFINITION
OF
POLICY

Policies are guidelines adopted by the Board to chart a course of action. They tell what is wanted and may also include why and how much. They are broad enough to admit discretionary action by the administration in meeting day-to-day problems yet, specific enough to give clear guidance.

POLICY AREAS AFFECTED BY CHANGES IN TECHNOLOGY

			CASE #1	CASE #2
A: Foundations and Basic Commitments				
B: Board Governance and Operations				
	BF	Board Policy Development		
	BFC	Policy Adoption		
	BFCA	Board Review of Regulations		
C: General School Administration				
D: Fiscal Management				
	DFF	Royalties		
	DFA	Purchasing Authority		
	DJC	Bidding Requirements		
	DJF	Purchasing Procedures		
E: Support Services				
	EGAAA*	Reproduction of Copyrighted Materials		
	EDC	Authorized Use of School Owned Material and Equipment		
F: Facilities Development				
G: Personnel				
	GCQB	Professional Research and Publishing		
I: Instruction				
	IF	Curriculum Development		
	IGA	Basic Instructional Program		
	IGAD	Occupational Ecucation		
	IGAK*	Computer Education		
	IIA	Instructional Materials		
	IIAA	Textbook Selection and Adoption		
	IIAB	Supplementary Materials Selection and Adoption		
	IIBG	Computer Assisted Instruction		
J: Students				
K: School Community Relations				
	KB	Public Information Program		
	KG	Community Use of School Facilities		
	KL	Public Complaints		
	KLB	Pulbic Complaints About the Curriculum		
L: Education Agency Relations				

FILE: BFB-E

P I N FORM
(Problem-Issue-Need for Policy Development)

EPS CODE: _____
(Office Use Only)

PROBLEM-ISSUE-NEED (Brief Description) _____

SUPPORTIVE DATA AS TO WHY A CHANGE IS NEEDED _____

SUGGESTED LANGUAGE CHANGE _____

Submitted By

Name: _____

Address: _____

Phone: _____

Date Submitted: _____

1985

DECISION-MAKING PROCESSES

- Student participation, engagement, & cooperation
- Direct parental involvement
- Individual teacher entrepreneurship
- Decision-making within a school building
- Politics
- Bureaucratic management
- Collective negotiation
- Intergovernmental finance decision-making
- Litigation

Title 5—DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

Division 50—Division of Instruction
Chapter 340—Supervision of Instruction

PROPOSED RULE

5 CSR 50-340.100 Approval of Utilizing Courses Delivered Primar-ily Through Electronic Media

PURPOSE: This rule establishes standards and procedures for approving and implementing courses delivered primarily through electronic media and monitored by teachers who are certificated but not fully qualified to teach the courses without the support of electronic media.

(1) Courses delivered primarily through electronic media may be offered by school districts and counted toward meeting the curriculum standards and state minimum graduation requirements if approved and implemented in accordance with this rule.

(2) The Department of Elementary and Secondary Education will accept applications for approval of electronically delivered courses submitted by school districts, developers of courses and sponsors of courses. Each application must be submitted by dates and on forms specified by the department. Each application for approval of a course must show that the course meets the following criteria and that the course:

(A) Has been developed on the basis of clearly stated learner outcomes or objectives;

(B) Is logically organized and developmentally suitable for the grade level at which it is intended to be used;

(C) Includes teaching strategies and resource materials which are educationally sound, address a variety of learning modalities and are consistent with the learning styles of the age group for which intended;

(D) Includes both formative and summative tests which are closely aligned with stated learner outcomes or objectives and provides for frequent feedback to students;

(E) Has been field tested and demonstrated to be effective in achieving stated learner outcomes;

(F) Has been reviewed by subject matter experts for content validity and objectiveness of presentation;

(G) Meets high standards of quality in production and presentation; and

(H) Includes instructional and technical inservice education for the local classroom teacher.

(3) The department will empanel a committee of curriculum specialists and teachers to review the course, judge it against the criteria in section (2) and make a recommendation to the department. The department will notify the applicant and all public schools of its decision.

(4) Any school district may apply for permission to use an approved course by submitting an application in a form and by a date specified by the department annually. Each application for permission to use an approved course must include enough information to permit the department to determine that—

(A) The local board of education has established policies for implementing the course including such matters as discipline, granting credit, grading and reporting to parents;

(B) Each electronically delivered course will be under the direct supervision of a teacher holding a valid Missouri teaching certificate for the grade levels at which the course will be offered and that the teacher has academic preparation as determined by the department as a result of its review of the approved course, recommendations of the developer or sponsor of the course and the content of related inservice education;

(C) The teacher will participate in instructional and technical inservice education developed and made available by the developer or sponsor of the approved course;

(D) The local district will acquire, install and maintain all the equipment and related apparatus, specific instructional resources and general resources recommended by the developer or sponsor of the course for the number of students to participate and has arranged for adequate housing of the program;

(E) The district will implement the course in the manner prescribed by the developer or sponsor, including scheduling classes as necessary to take advantage of live, interactive broadcasts and adjusting the beginning and ending dates of classes to participate in the full course; and

(F) The district will continuously monitor and evaluate the effectiveness of the course.

(5) Department staff members will review all applications, give applicant school districts an opportunity to correct any deficiencies and notify the districts of approval or disapproval to use the course.

Auth: section 161.092, RSMo (Supp. 1987). Original rule filed Sept. 25, 1987.

STATE AGENCY COST: Developing and utilizing courses delivered primarily through electronic media are voluntary. Therefore, it is impossible to estimate the cost of this rule to state agencies.

PRIVATE ENTITY COST: Developing courses delivered primarily through electronic means is voluntary. Therefore, it is impossible to estimate the cost of this rule to private entities.

EDUCATION APPLICATIONS OF TECHNOLOGY

Five Broad Uses:

- To develop basic knowledge and skills more efficiently than is possible with conventional instruction.
- To teach higher-order concepts and reasoning skills that are more difficult to develop without the technology.
- To develop an understanding of information technology and its uses in society and the work place.
- To enable teachers to manage a learning environment in which learning is tailored to fit each student's needs and progress is based upon prescribed levels of achievement.
- To develop proficiency in applying computers and related technologies.